Problem Statement

Companies want out of owning/leasing/managing a data center

Portfolios of applications that are starting to age or need to be upgraded

Concerns

The business is not seeing the needed agility from their support/IT organizations/platforms

IT Operations does not have the needed visibility into the running systems to ensure business continuation

Ideal Migration Process

Assessment
- Identify portfolio
- Collect usage and dependency data
- Interview system owners for key considerations

Pilot
- Identify one or more systems to be migration
- Do a modernization/mitigation exercise for each
- Assess the results, plan next steps

Migrate / Modernize
- For each remaining systems, M+M
- Collect metrics and process notes
- Learn from each one

Basic M+M Considerations

» Are any of the components no longer supported by the vendor and need to be upgraded to be migrated?

» Are there deprecated technologies that must be replaced?

» Are there back-end systems that can not be moved?

» Are there systems that must be re-written as they are no longer for purpose?

» Are there systems that can be retired?

» Are there special considerations such as security, compliance, privacy, globalization, or accessibility that need to be considered?
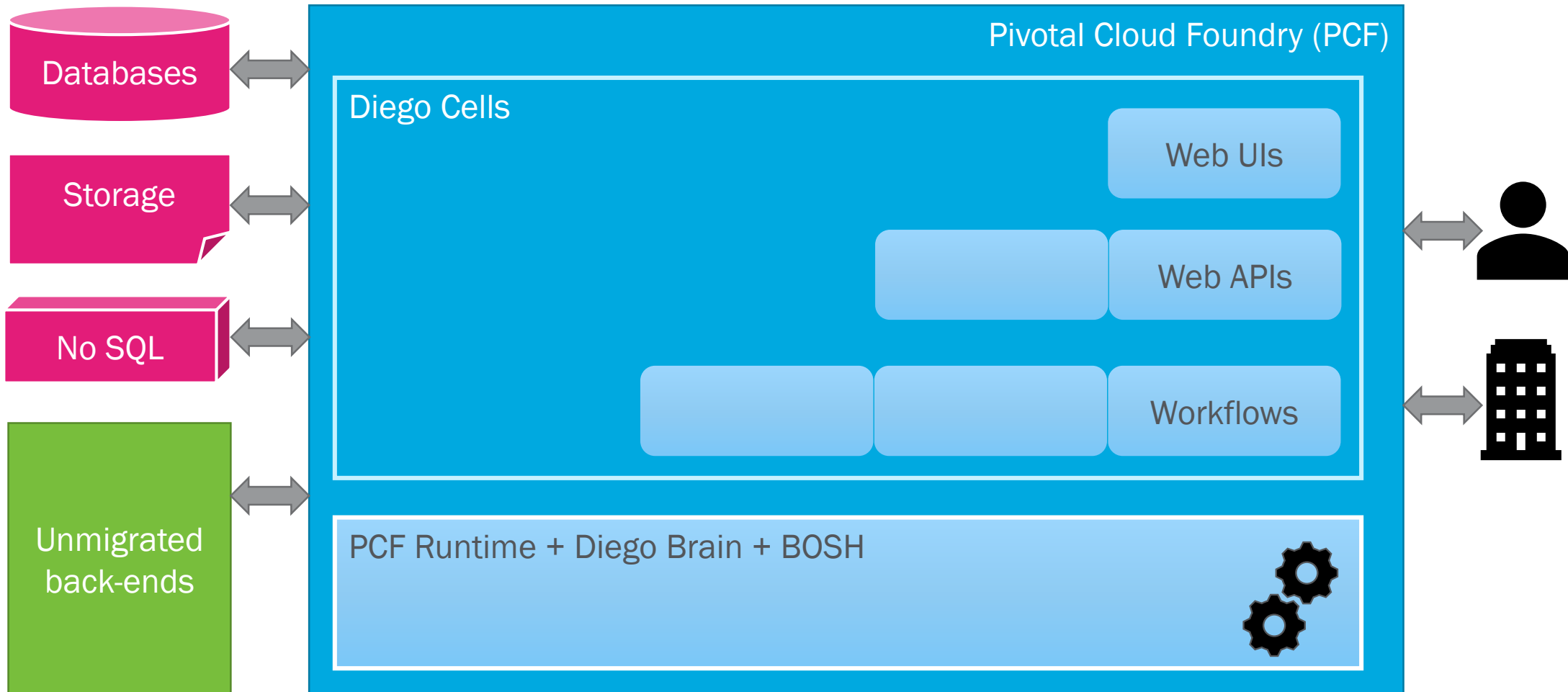
Typical Blockers to M+M Projects

1. Authorization / Authentication / Identity

2. Connectivity between the data center and the cloud

3. Cooperation of the application owners and documentation around build, configuration, and deployment

4. Compatibility of software, O/S, and components to target environment

5. Systems exhibit poor runtime behavior once migrated to the cloud due to platform issues

6. Systems exhibit poor runtime behavior once migrated to the cloud due to Latency issues between components or in hybrid scenarios between the cloud and the data center

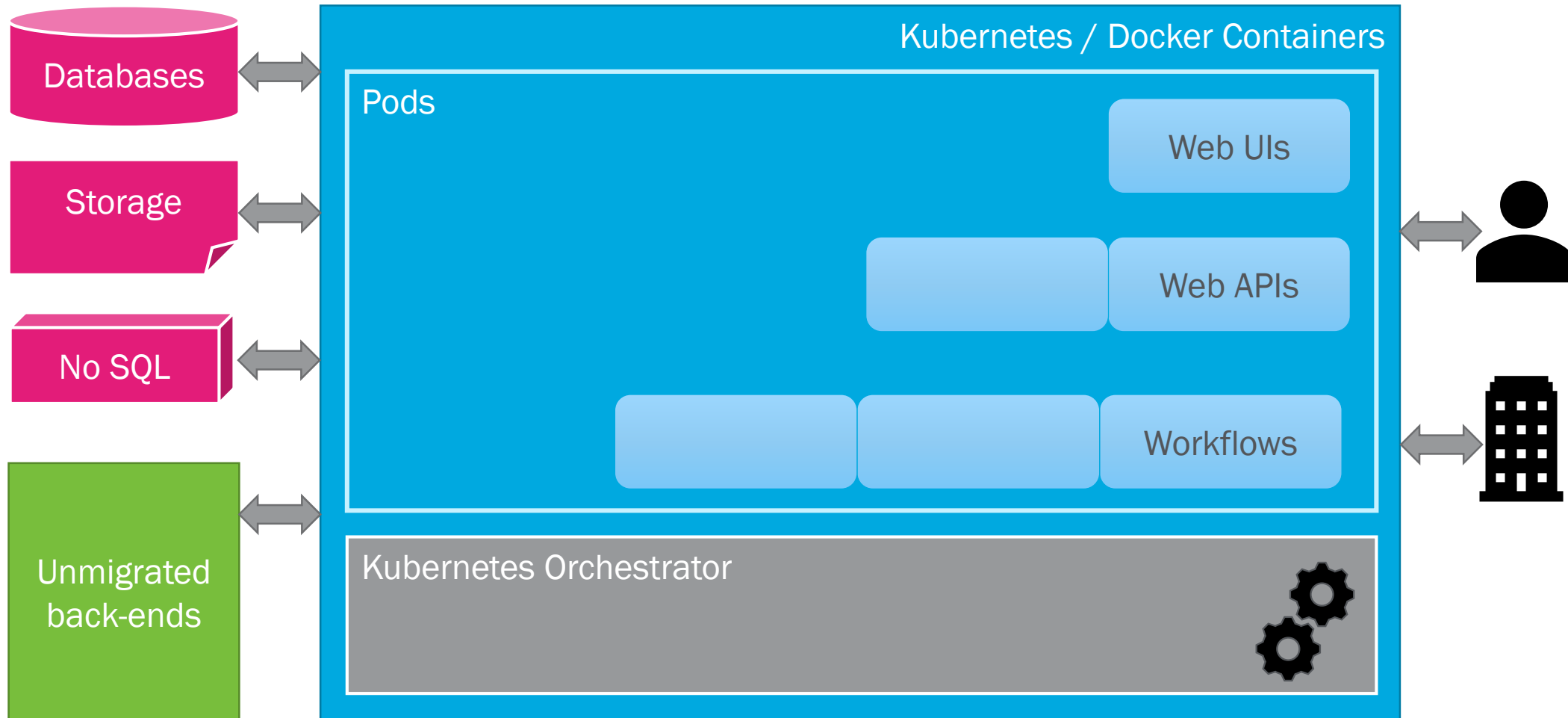7. Organizational obstacles – Gatekeepers and Compliance Organizations

Common Patterns

Some common strategies...

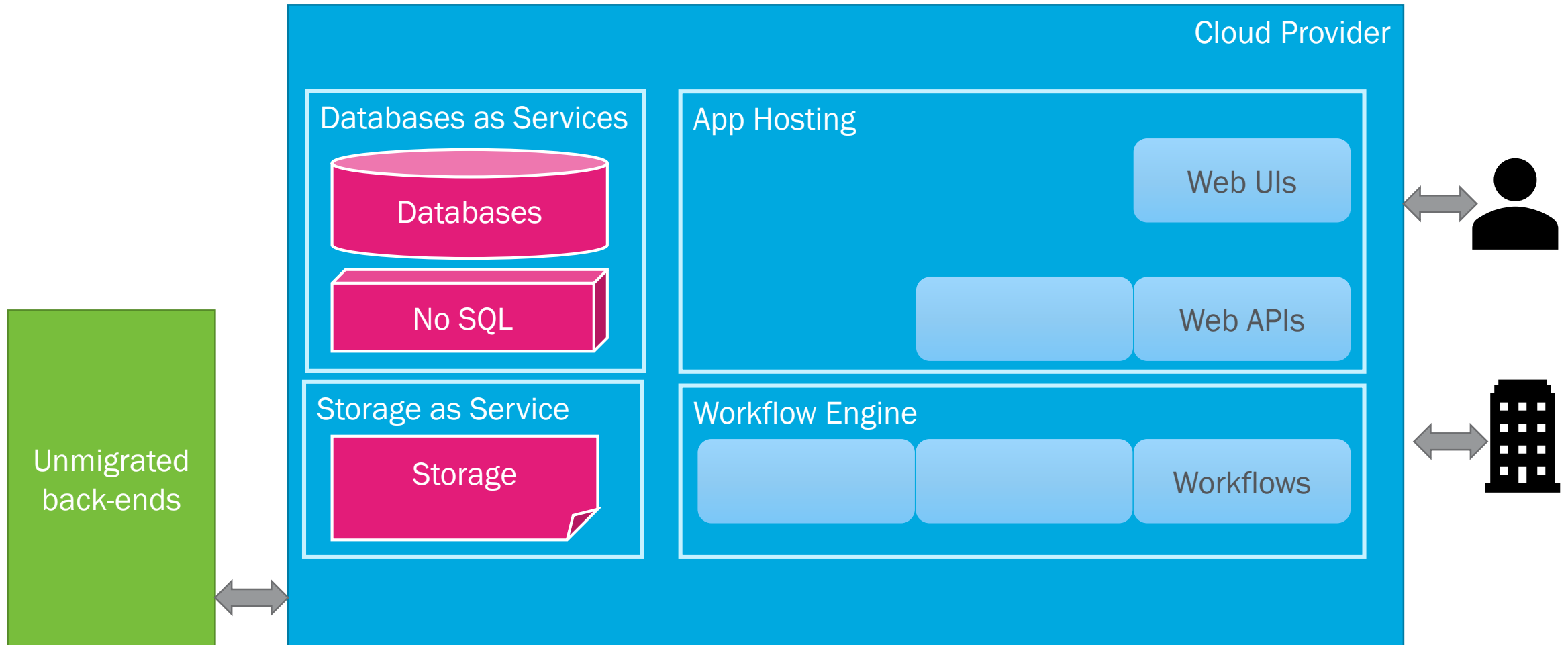# Migration Pattern – Pivotal Cloud Foundry + ...

Databases

Storage

No SQL

Unmigrated back-ends

Pivotal Cloud Foundry (PCF)

Diego Cells

Web UIs

Web APIs

Workflows

PCF Runtime + Diego Brain + BOSH

Migration Pattern – Kubernetes + Containers + PaaS

Migration Pattern – PaaS + …

Cloud Provider

Databases as Services
- Databases
- No SQL

Storage as Service
- Storage

App Hosting
- Web UIs
- Web APIs

Workflow Engine
- Workflows

Unmigrated back-ends

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Choosing alternatives

» First, none of these are these are mutually exclusive, depending on the scenario and requirements, these can be combined

» It's important to consider what the customer's developers and IT organization can support as well.

» None of these alternatives will result in success unless they also modernize their process as well, this change must encompass their entire lifecycle from product management to DevOps

» The technology leadership team can help customers decide what's best for each item in their portfolio

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Magenic at a Glance

GREG FRANKENFIELD
CEO & Co-Founder

PAUL FRIDMAN
President & Co-Founder

» Founded in 1995

» 800+ employees

» Nationally recognized thought leadership

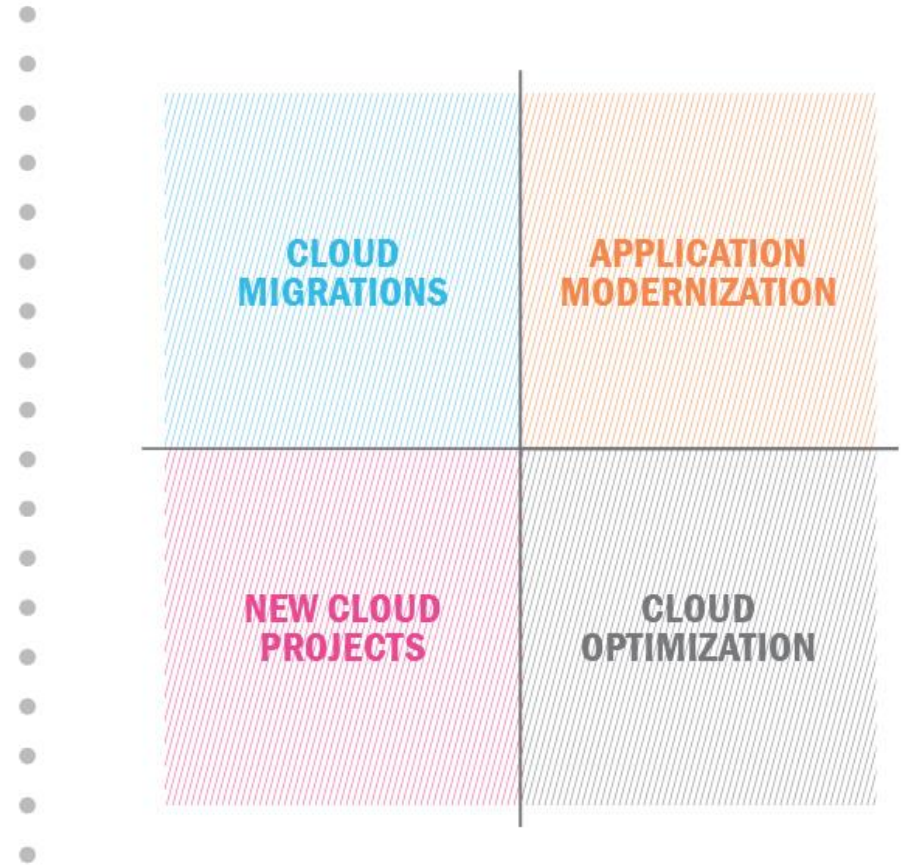» Regional Expertise: *PM, BA, Architecture, Development, Design UI/UX, Mobile*

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» E-Commerce

» Application Security

CLOUD MIGRATIONS

APPLICATION MODERNIZATION

NEW CLOUD PROJECTS

CLOUD OPTIMIZATION

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